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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,130	06/25/2004	Ryosuke Miyamoto	03500.017020.	7158
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ZHU, RICHARD Z				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/500,130

Applicant(s)

MIYAMOTO, RYOSUKE

Examiner

RICHARD Z. ZHU

Art Unit

2625

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3, 5-7, 9, 12 and 17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3, 5-7, 9, 12, and 17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SI/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Acknowledgement

1. Acknowledgement is made of applicant's amendment made on 07/09/2008. Applicant's submission filed has been entered and made of record.

Status of the Claims

2. Claims 2, 8, 10, 11, 13-14, and 18 has been cancelled. Claims 1, 3, 5-7, 9, 12, and 17 are pending in the instant application. All independent claims are "currently amended".

Response to Applicant's Arguments

3. Applicant's arguments have been duly considered in view of the amendments to the claims and they are moot in view of the new ground of rejection set forth in the instant action.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 3, 6-7, 9, 12, and 17 are rejected under 35 USC 103(a) as being unpatentable over *Okazawa (US 5937148 A)* in view of *McLean (US 5517649 A)* and *Shishizuka et al (US 6347202 B1)*.

Regarding the apparatus of Claim 1 and therefore the method of Claim 12,
Okazawa discloses an image processing apparatus having a plurality of operation modes including a mode for outputting print data received from outside of the image processing apparatus (**Fig 1, Printing Apparatus and see Col 4, Rows 30-35, print data being received from an external apparatus**), the image processing apparatus comprising:

specifying means for specifying an operator, the operator being one of a user and a department that uses the image processing apparatus (**Fig 1, CPU 114 and see Col 4, Rows 33-41, the CPU implements a program on a work memory to control the operation of the entire apparatus. Col 7, Row 62 - Col 8, Row 2, when it is confirmed that print data is received from and the printer is being used by an external host, the printer send its status information about its current power consumption to the external host via an ID that specifies the external host and otherwise specifies an operator**);

memory means for storing a power consumption status information for said each of the plurality of operation modes (**Fig 1, RAM 116 and see Col 7, Rows 64-65**);

preparation means for preparing statistical information concerning the power consumption status information of the image processing apparatus (**Fig 1, CPU 114 and see Col 4, Rows 33-41, the CPU implements a program on a work memory to control the operation of the entire apparatus, including preparing status or statistical information concerning power consumption of the apparatus**);

output means for performing an output of the statistical information consumption prepared by said preparation means (**Fig 1, CPU 114 and IOP 111, Col 4, Rows 30-35, for**

transmitting status information to the operator or the external apparatus whereas the display at the external apparatus would display the status information to the operator).

Okazawa does not disclose an image processing apparatus having a first mode for outputting image data read by image reading means and a second mode for outputting print data received from the outside.

Shishizuka discloses an image processing apparatus (**Col 6, Rows 38-58, Composite Image Forming Apparatus**) having a first mode for outputting image data read by image reading means (**mode for reading in scanned images**) and a second mode for outputting print data received from the outside (**mode for printing images and see Col 6, Rows 53-58, network interface for sending and receiving data from an external device**) that compiles and analyze power consumption information (**Col 1, Rows 29-59**).

It would've been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of *Okazawa* to have an image read mode of *Shishizuka* such that the apparatus would have a plurality of modes having both an image read mode and outputting print data whereas the motivation would've been to provide the user with a multi-functional image processing apparatus that can receive data from external means (*Okazawa*, **Col 4, Rows 30-31**).

The apparatus of the combined teachings do not disclose a timing means for timing an operation time for each of the plurality of operation modes and an operation time for the specified operator during operation of the image processing apparatus and calculation means for calculating a power consumption amount of the image processing apparatus for the

specified operator based on the power consumption amount per unit time stored by said memory means and the operation times timed by said timing means.

McLean discloses a data processing apparatus (**Col 3, Rows 27-37, a computer embodied by a disk drive**) for compiling statistical information about power consumption of the apparatus (**Col 2, Rows 30-40**) associated with an operator's operating characteristics and a plurality of operation modes of the apparatus demanded by said operator (**Col 3, Rows 27-54, different users operates the apparatus at a different style and pace as well as a different combinations of operations**) said apparatus comprising:

timing means for timing an operation time for each of the plurality of operation modes and an operation time for an specified operator during operation of the image processing apparatus (**Col 3, Rows 27-54, the disk drive being implemented in hardware or software or a combination thereof. Col 7, Rows 54- 63, an internal clock for measuring the elapsed time needed for executing a particular request or mode of operation, see Equation 1 and 2, in particular variable tseek, the average seek time to execute a request, Col 5, Rows 23-24. This is performed when the disk drive is in operation, see Col 7, Rows 19-21, in either sleep mode or active mode when power is supplied**);

memory means for storing a power consumption amount per unit time for said each of the plurality of operation modes (**Fig 2, a histogram detailing, for a given period of wait time, the percentage of requests executed when the disk drive is in active mode and**

when in sleep mode where Pseek details the power consumed for executing a particular task);

calculation means for calculating a power consumption amount of the image processing apparatus for the specified operator based on the power consumption amount per unit time stored by said memory means and the operation times timed by said timing means **(Fig 2 and see Col 5, the total power for a particular user is the sum of Pactive and Psleep given a particular period of sampling points in time. This is implemented by disk drive itself);**

preparation means for preparing statistical information concerning the power consumption amount of the image processing apparatus calculated by said calculation means **(Col 8, Rows 54-67, said process being executed by the disk drive); and**

It would've been obvious to one of ordinary skill in the art at the time of the invention to modify the CPU of *Okazawa* to implement the functionality of *McLean*'s disk drive in the overall architecture of the combined teachings so that the compilation of statistical information takes into consideration each user's unique characteristics or the frequency of employing the apparatus, the apparatus's mode of operation when user or operator requests are received, and the mode of operation or processing requested by the user or operator whereas the motivation would've been to "provide a generalized method of determining the work load presented by the particular user and host computer to the hard disk drive" (*McLean*, Col 2, Rows 22-24), or in this case, the image forming apparatus of the combined teachings.

Regarding the computer program on a computer readable medium, *Okazawa* discloses program implemented by CPU on ROM 115 (Col 4, Rows 30-35).

Regarding Claim 3, *Okazawa* discloses management means for managing user identification information by associating the user identification information with power consumption status information (Col 7, Rows 62-67).

McLean discloses the preparation means prepares the statistic information based on the timed operation times (Col 7, Rows 54-63 and Equations 1 and 2, **the internal clock implemented by the hardware and software of disk driver is responsible for measuring various variable “t”, in particular, tseek, the amount of time needed to executed a request**), the power consumption amount per unit time for said each of the plurality of operation modes (Col 3, 43-48, **the power consumption for an operation employing a processing program is different from that of sorting a database**), and user identification information (Fig 1, Col 3, Row 55 – Col 4, Row 6, **describing the characteristics of an operator, see also Col 3, Rows 48-54**).

Okazawa as modified by ***McLean*** would have an apparatus that manages user identification information by associating an external host ID representing said operator or user with power consumption statistics that includes operation times timed by the timing means with respect to all the requests made by said operator in order to minimize power consumption.

Regarding Claim 6, *Shishizuka* discloses the image processing apparatus (Col 6, Rows 38-58, **Composite Image Forming Apparatus**) wherein the first mode is a copy

mode (**scanner function or mode for reading in scanned images**) and the second mode is a printer mode (**printer function or mode for printing images**).

Regarding Claim 7, *Okazawa* as modified by *McLean* and *Shishizuka* discloses wherein said output means outputs the prepared statistical information concerning power consumption to a display unit during designated processing for designating the operation mode or during execution of the operation mode (***Okazawa*, Fig 9, Display Unit 95 on the external host computer where the status information is outputted to**).

Regarding Claim 9, *Okazawa* as modified by *McLean* and *Shishizuka* discloses an information processing apparatus capable of communicating with the image processing apparatus (***Okazawa*, Col 4, Rows 30-35, see Fig 9**).

6. Claim 5 is rejected under 35 USC 103(a) as being unpatentable over the combined teachings of *Okazawa* (*US 5937148 A*) as modified by *McLean* (*US 5517649 A*) and *Shishizuka et al* (*US 6347202 B1*) in view of *Alsop* (*US 6795829 B2*).

Okazawa discloses sending prepared statistic information concerning power consumption to a terminal apparatus external to the information processing apparatus (**Col 4, Rows 30-35, see Fig 9**).

However, said combined teachings does not wherein said output means sends the statistical information to a terminal apparatus external to said image processing apparatus as a markup language.

Alsop discloses in Fig 1, a central computer 2 that act as a fulcrum to exchange information with various devices in a network. Furthermore, ***Alsop*** discloses in (**Col 4, Rows**

20-25) that markup language HTML can be employ as the protocol to communicate information over the network to an external terminal apparatus (Fig 1).

Alsop is the field of communicating information comprising user identification, power consumption, time value, and etc (Fig 2 and Fig 3) to external terminal apparatus.

It would've been obvious to one of ordinary skill in the art at the time of the invention to configure the output means of the combined teachings to communicate statistical information to a terminal apparatus using markup language as suggested by *Alsop* in order to properly communicate information over a network or server.

Therefore, it would've been obvious to combine *Alsop* with the combined teachings to attain the invention of Claim 5.

Conclusion

7. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Richard Z. Zhu whose telephone number is 571-270-1587 or examiner's supervisor King Y. Poon whose telephone number is 571-272-7440. Examiner Richard Zhu can normally be reached on Monday through Thursday, 6:30 - 5:00.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RZ²
08/06/2008

Richard Z. Zhu
Assistant Examiner
Art Unit 2625

/King Y. Poon/

Supervisory Patent Examiner, Art Unit 2625